p1103: Factoring with box when $a = $ prime (v20)

Example

Use the box to factor $2x^2 - 9x - 18$.

Guess and check, based on factor pairs of -18, until you find the pair that results in a linear coefficient of -9 after combining like terms.

*	x	−6
2x	$2x^2$	−12x
3	3x	−18

$2x^2 - 12x + 3x - 18$

Combine
like
terms.

$2x^2 - 9x - 18$

ANSWER: $(2x + 3)(x - 6)$

Question 1

Use the box to factor $5x^2 + 43x + 24$.

*	x	
5x	$5x^2$	
		24

ANSWER:

Question 2

Use the box to factor $3x^2 + 11x - 42$.

$*$	X	
3x	$3x^2$	
		-42

ANSWER:

Question 3

Use the box to factor $7x^2 - 64x + 64$.

$*$		

ANSWER: